



## MANUAL OF PATENT EXAMINING PROCEDURE

PTO/SB/08 (2-92)

Sheet 1 of 2

Form PTO-1440 TRADEMARKS & PATENTS INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number (Optional) 1059.00096		Application Number 10/700,032	
	Applicant Sabbah et al			
	Filing Date 11-3-03		Group Art Unit 1632	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
VH	4,666,828		Gusella			
↑	4,683,202		Mullis			
	4,801,531		Frossard			
	5,192,659		Smulson et al			
VH	5,272,057		Simons			

## FOREIGN PATENT DOCUMENTS

	DOCKET NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date Pertinent Pages, Etc.)

VH	Beresford, J. N.: Osteogenic Stem Cells and the connective Stomal System of Bone and Marrow, Clin. Orthop., 240:270,1989.
↑	Burke and Olson, "Preparation of Clone Libraries in Yeast Artificial-Chromosome Vectors" in <u>Methods in Enzymology</u> , Vol. 194, "Guide to Yeast Genetics and Molecular Biology", eds. C. Guthrie and G. Fink, Academic Press, Inc., Chap. 17, pp. 251-270 (1991).
↓	Capecci, "Altering the genome by homologous recombination" <u>Science</u> 244:1288-1292 (1989).
VH	Cregg JM, Vedvick TS, Raschke WC: Recent Advances in the Expression of Foreign Genes in <u>Pichia pastoris</u> , Bio/Technology 11:905-910, 1993
not available	Culver, 1998. Site-Directed recombination for repair of mutations in the human ADA gene. (Abstract) Antisense DNA & RNA based therapeutics, February, 1998, Coronado, CA.
VH	Davies et al., "Targeted alterations in yeast artificial chromosomes for inter-species gene transfer", Nucleic Acids Research, Vol. 20, No. 11, pp. 2693-2698 (1992).
↑	Gilboa, E, Eglitis, MA, Kantoff, PW, Anderson, WF: Transfer and expression of cloned genes using retroviral vectors. BioTechniques 4(6):504-512, 1986.
↓	Huston et al, 1991 "Protein engineering of single-chain Fv analogs and fusion proteins" in <u>Methods in Enzymology</u> (JJ Langone, ed.; Academic Press, New York, NY) 203:46-88.
VH	Jackson KA, Majka SM, Wang H, Pocius J, Hartley CJ, Majesky MW, Entman ML, Michael LH, Hirschi KK, Goodell MA. Regeneration of ischemic cardiac muscle and vascular endothelium by adult stem cells. J Clin Invest 2001 Jun;107(11):1395-402.

V. Afrinma

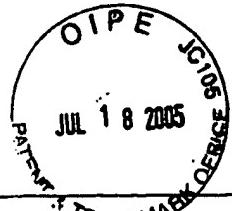
03-03-2006

VA	Jakobovits et al., "Germ-line transmission and expression of a human-derived yeast artificial chromosome", <i>Nature</i> , Vol. 362, pp. 255-261 (1993).
A	Lamb et al., "Introduction and expression of the 400 kilobase precursor amyloid protein gene in transgenic mice", <i>Nature Genetics</i> , Vol. 5, pp. 22-29 (1993).
	Maltsev VA, Rohwedel J, Hescheler J, Wobus AM: Embryonic stem cells differentiate <i>in vitro</i> into cardiomyocytes representing sinusnodal, atrial and ventricular cell types. <i>Mechanisms of Development</i> , 1994; 191:41-50.
	Maltsev VA, Wobus AM, Rohwedel J, Bader M, Hescheler J. Cardiomyocytes differentiated <i>in vitro</i> from embryonic stem cells developmentally express cardiac-specific genes and ionic currents. <i>Circulation Research</i> , 1994; 75(2):233-244.
	Mernaugh and Mernaugh, 1995 "An overview of phage-displayed recombinant antibodies" in <i>Molecular Methods In Plant Pathology</i> (RP Singh and US Singh, eds.; CRC Press Inc., Boca Raton, FL) pp. 359-365.
	Orlic D, Kajstura J, Chimenti S, Jakoniuk I, Anderson SM, Li B, Pickel J, McKay R, Nadal-Ginard B, Bodine DM, Leri A, Anversa P. Bone marrow cells regenerate infarcted myocardium. <i>Nature</i> . 2001 Apr 5;410(6829):640-1.
	Pearson and Choi, <i>Expression of the human b-amyloid precursor protein gene from a yeast artificial chromosome in transgenic mice</i> . Proc. Natl. Acad. Sci. USA, 1993. 90:10578-82.
	Rothstein, "Targeting, disruption, replacement, and allele rescue: integrative DNA transformation in yeast" in <i>Methods in Enzymology</i> , Vol. 194, "Guide to Yeast Genetics and Molecular Biology", eds. C. Guthrie and G. Fink, Academic Press, Inc., Chap. 19, pp. 281-301 (1991).
	Sabbah HN, Stein PD, Kono T, Gheorghiade M, Levine TB, Jafri S, Hawkins ET, Goldstein S. A canine model of chronic heart failure produced by multiple sequential coronary microembolizations. <i>American Journal of Physiology</i> . 1991; 260:H1379-84.
	Sabbah, HN. Apoptotic cell death in heart failure. <i>Cardiovasc Res</i> . 2000 45:704-712.
	Schedl et al., "A yeast artificial chromosome covering the tyrosinase gene confers copy number-dependent expression in transgenic mice", <i>Nature</i> , Vol. 362, pp. 258-261 (1993).
	Strauss et al., "Germ line transmission of a yeast artificial chromosome spanning the murine $\alpha_1$ (I) collagen locus", <i>Science</i> , Vol. 259, pp. 1904-1907 (1993).
VA	Wang JS, Shum-Tim D, Galipeau J, Chedrawy E, Eliopoulos N, Chiu RC. Marrow stromal cells for cellular cardiomyoplasty: feasibility and potential clinical advantages. <i>J Thorac Cardiovasc Surg</i> . 2000.
EXAMINER <i>V. Hfner</i>	DATE CONSIDERED 3-03-2006

PTO/SB/08 (2-92)  
COMMERCE

Patent and Trademark Office; U.S. DEPARTMENT OF

609



## MANUAL OF PATENT EXAMINING PROCEDURE

PTO/SB/08 (2-92)

Sheet 1 of 1

Form PTO-1449

**SUPPLEMENTAL INFORMATION  
DISCLOSURE CITATION IN AN  
APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)  
**1059.00096**Application Number  
**10/700,032**Applicant  
**Sabbah, et al.**Filing Date  
**11/03/2003**Group Art Unit  
**1632****U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
------------------	-----------------	------	------	-------	----------	----------------------------

**FOREIGN PATENT DOCUMENTS**

	DOCKET NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
VA	1136 083 A	9/26/01	EP				

**OTHER DOCUMENTS (Including Author, Title, Date Pertinent Pages, Etc.)**

VA	Aoki, M., et al. Beneficial Angiogenesis Induced by Over-Expression of Human Hepatocyte Growth Factor (HGF) in Non-Infarcted and Infarcted Myocardium: Potential Gene Therapy for Myocardial Infarction. Circulation, American Heart Association, vol. 98, no. 17, suppl. 27 October 1998, pages I-321
A	Esakof, D., et al. Intraoperative Multiplane Transesophageal Echocardiography for Guiding Direct Myocardial Gene Transfer of Vascular Endothelial Growth Factor in Patients with Refractory Angina Pectoris. Human Gene Therapy vol. 10:2307-2314 (September 20, 1999)
	Grant, Derrick S., et al. Scatter factor induces blood vessel formation in vivo. Proc. Natl. Acad. Sci. USA, Vol 90, pp. 1937-1941, March 1993
	Harada, K., et al. Vascular endothelial growth factor administration in chronic myocardial ischemia. 1996 The American Physiological Society. H1791-1802
	Heath, Carole A., et al. Cells for tissue engineering. Trends in Biotechnology, January 2000 (Vo. 18) 17-19
	Kaye, D., et al. Reduced Myocardial Nerve Growth Factor Expression in Human and Experimental Heart Failure. Circ Res. Vol. 100, no. 18 suppl., 2000;86:e80-e84
	Klug, M., et al. Genetically Selected Cardiomyocytes from Differentiating Embryonic Stem Cells Form Stable Intracardiac Grafts. J. Clin. Invest. The American Society for Clinical Investigations, Inc. Vol 98, Number 1, July 1996. 216-224
	Landau, C., et al. Intrapericardial basic fibroblast growth factor induces myocardial angiogenesis in a rabbit model of chronic ischemia. American Heart Journal, May 1995 924-931
	Morbidelli, L., et al. Nitric Oxide Mediates Mitogenic Effect of VEGF on Coronary Venular Endothelium. American Journal of Physiology: Heart and Circulatory Physiology, The American Physiological Society, vo. 270, no. 1, part 2, 1996, pages H411-H415
VA	Tomita, S., et al. Autotransplanted Mesenchymal Stem Cells Improve Function After a Myocardial Infarction. Circulation, American Heart Association, vo.. 98, no. 17, suppl. 27 October 1998, pages I-200

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.